

FIG. 1

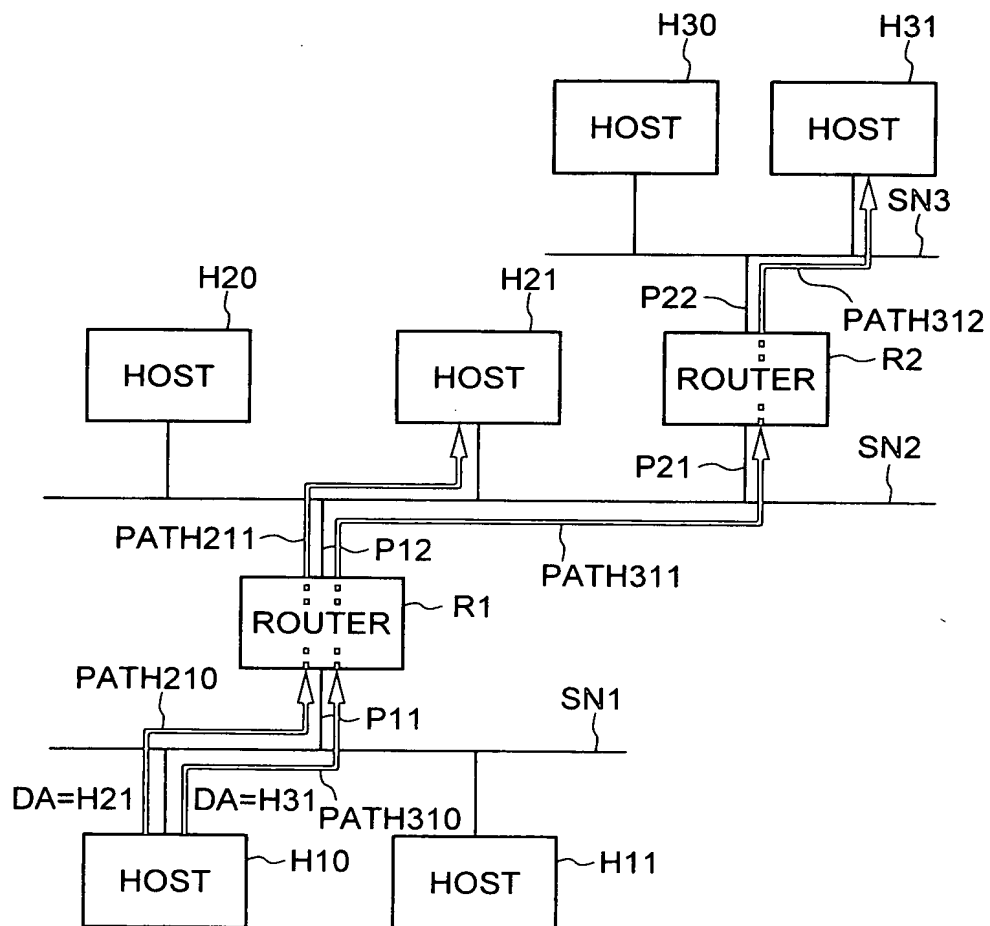
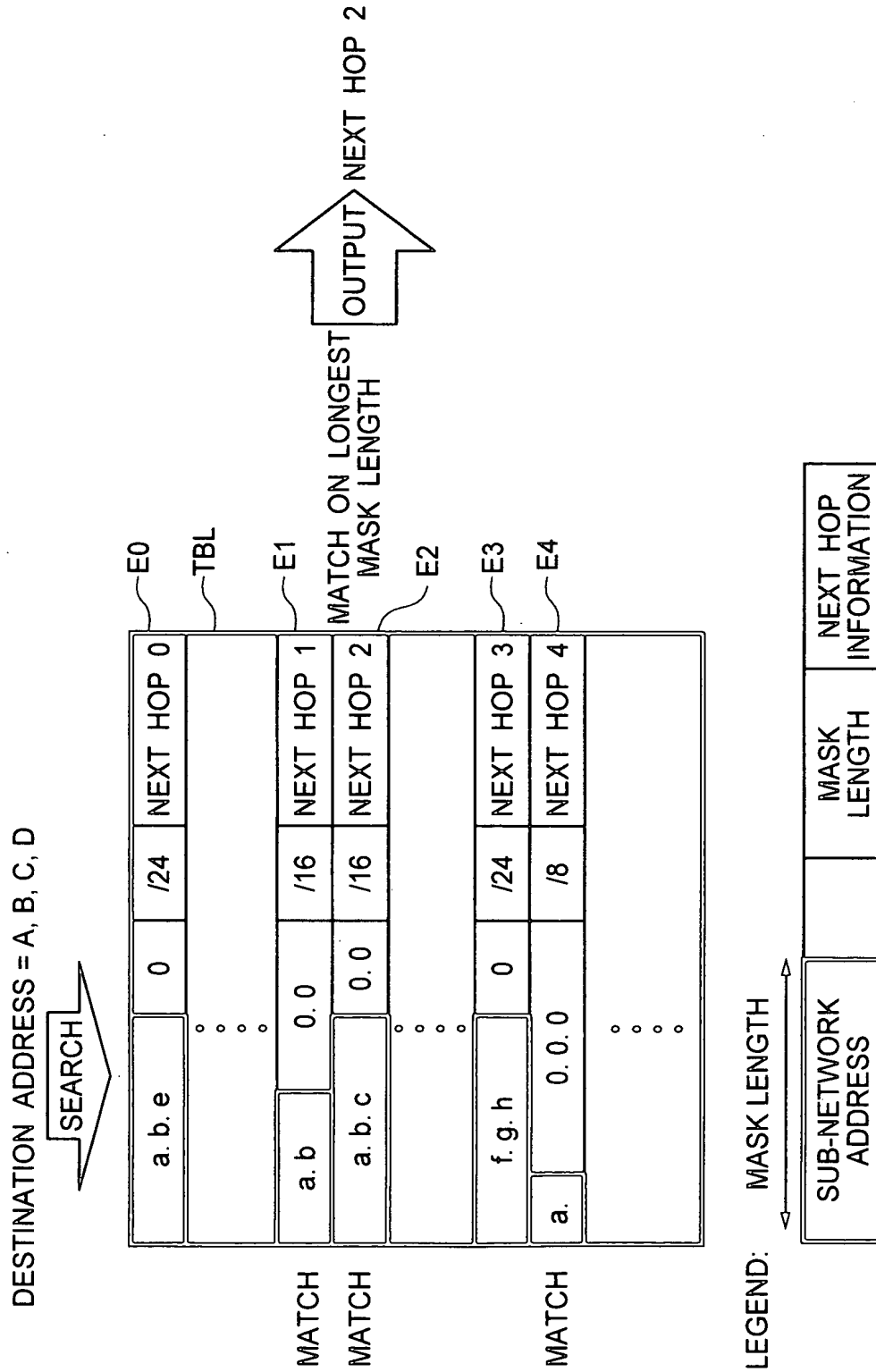
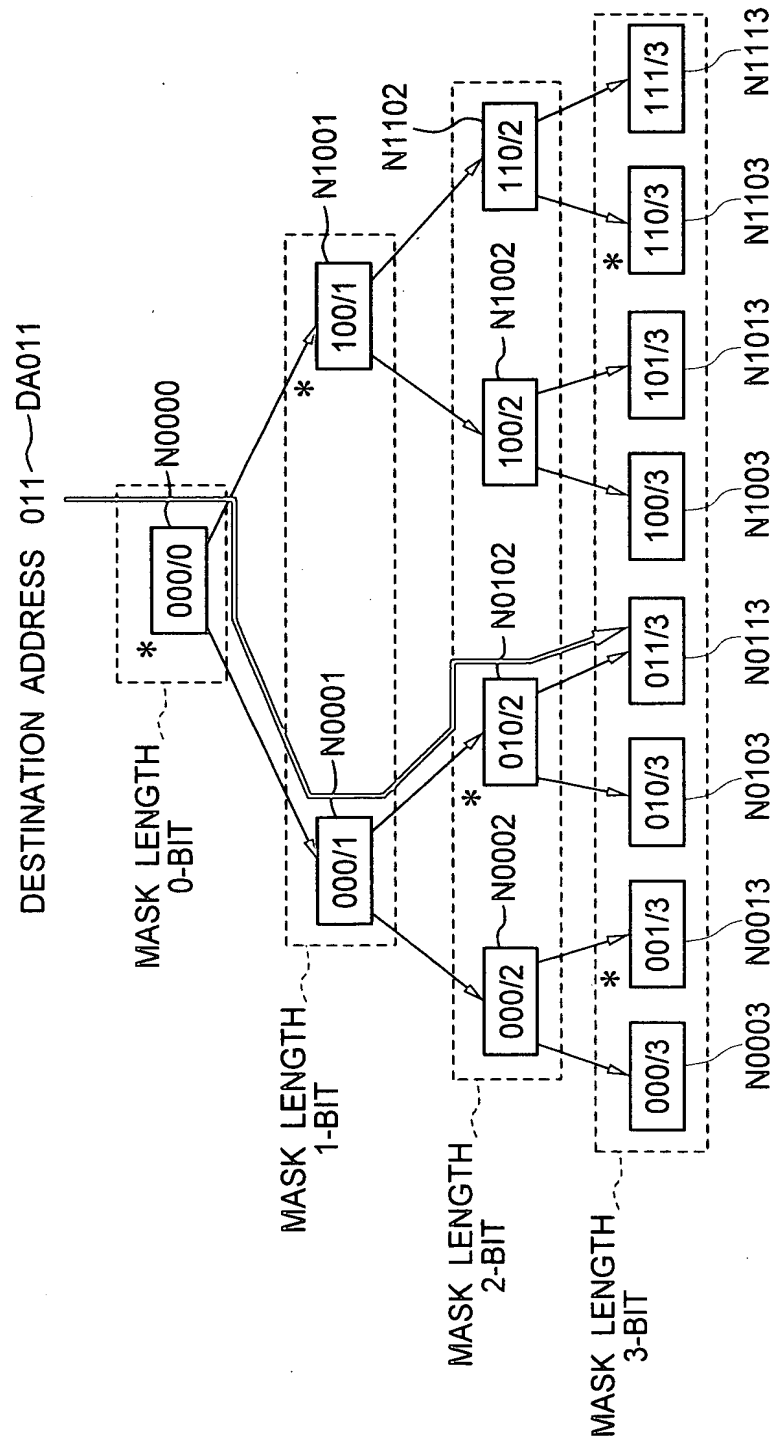


FIG. 2



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LEGEND:

SUB-NETWORK ADDRESS/MASK LENGTH

INDICATES THAT A PATH IS ALLOCATED TO THIS NODE.

FIG. 4

PATH TABLE

SUB-NETWORK ADDRESS	/	MASK LENGTH
000	/	0
001	/	3
010	/	2
100	/	1
110	/	3

FIG. 5

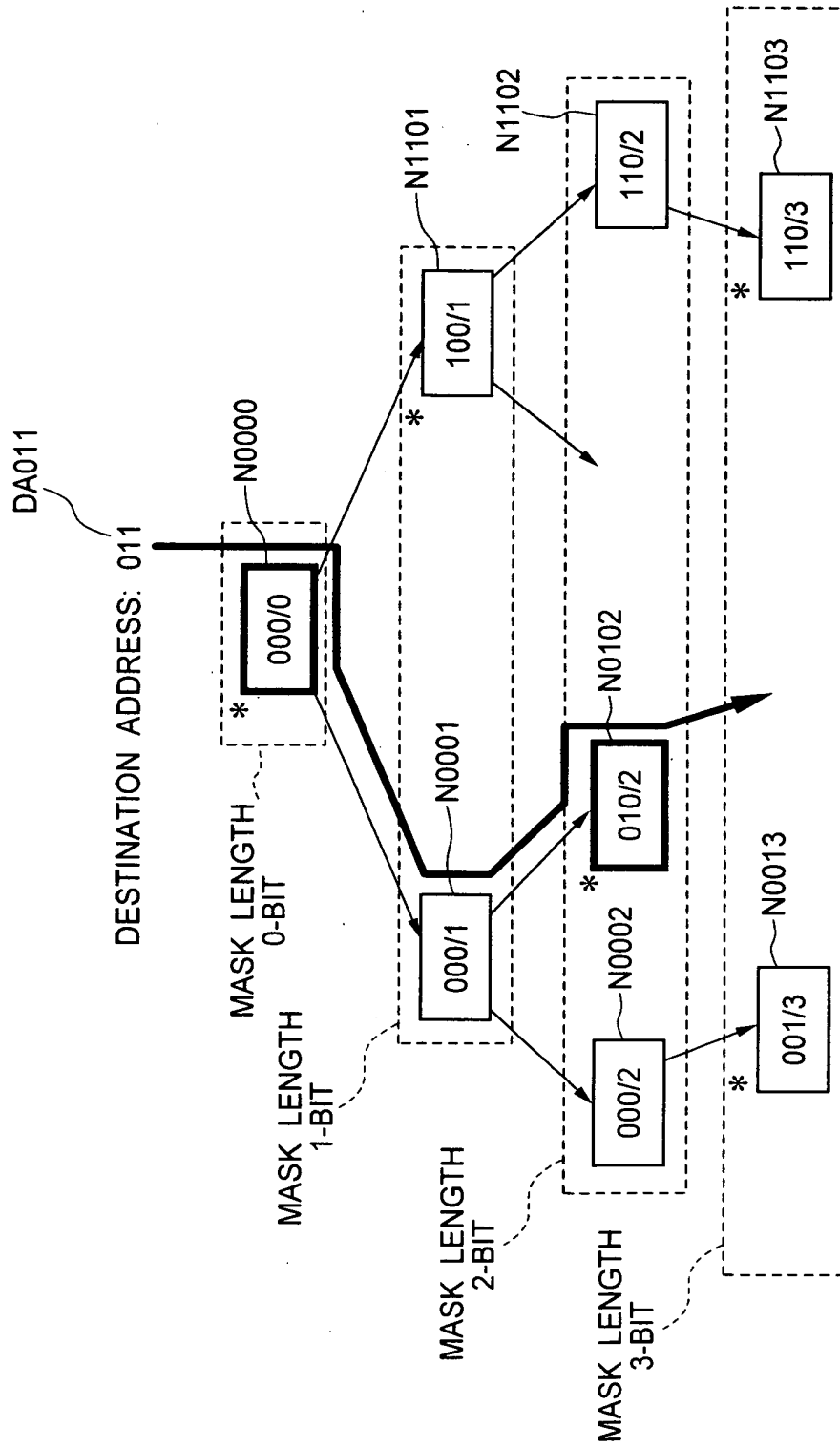


FIG. 6

PATH TABLE

SUB-NETWORK ADDRESS	/	MASK LENGTH
0x00. 00. 00. 00	/	0
0x85. 04. 00. 00	/	16
0x85. 05. 00. 00	/	16

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FIG. 7

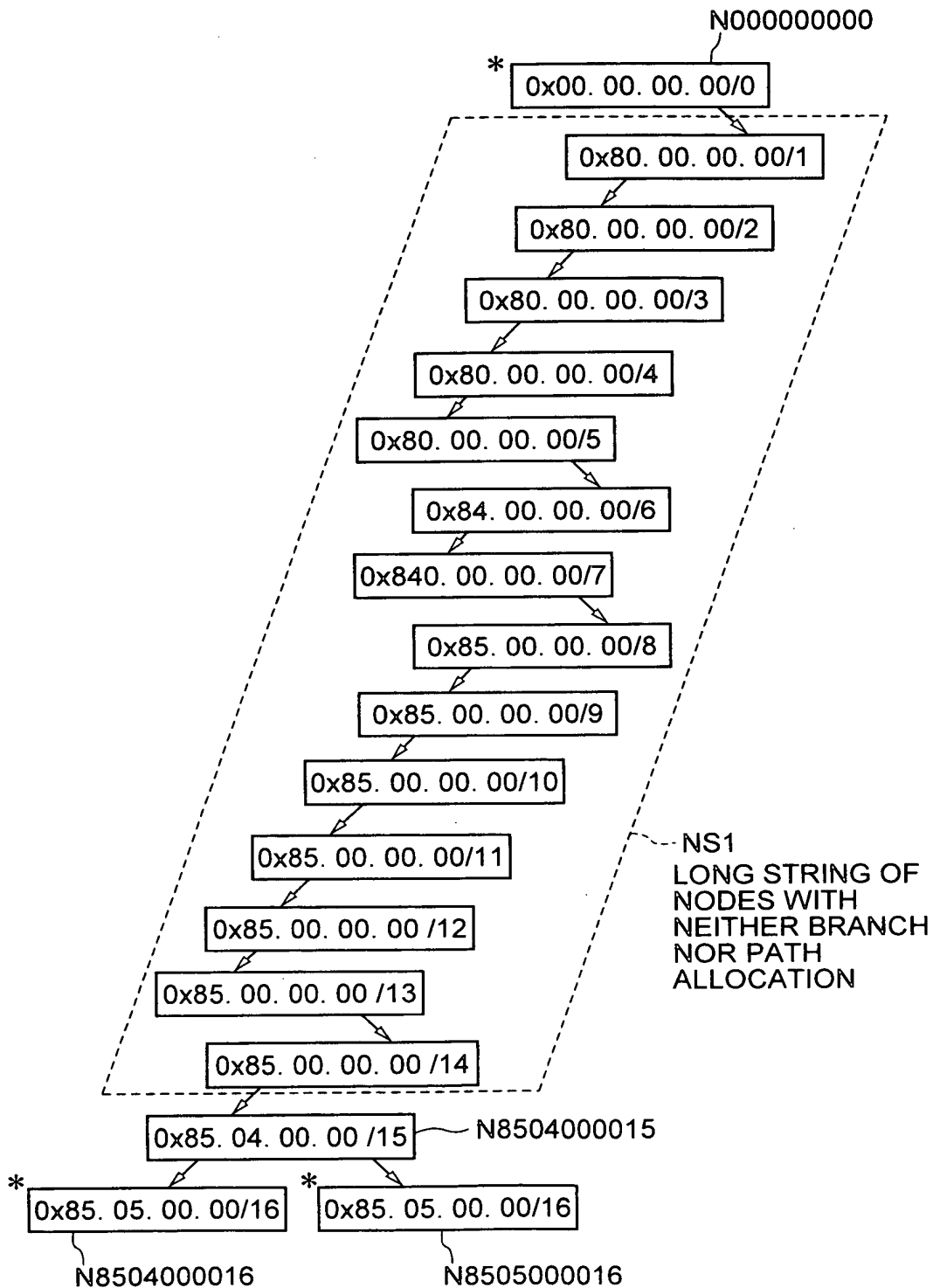
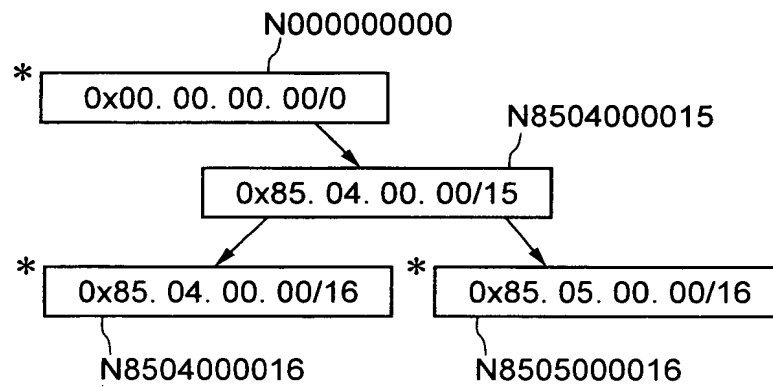


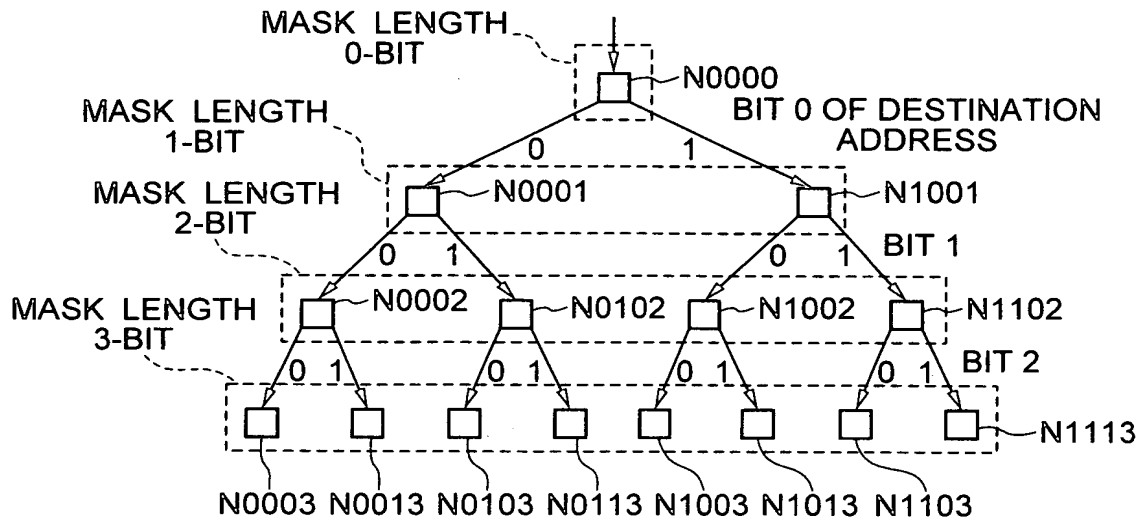
FIG. 8



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FIG. 9

(a)



(b)

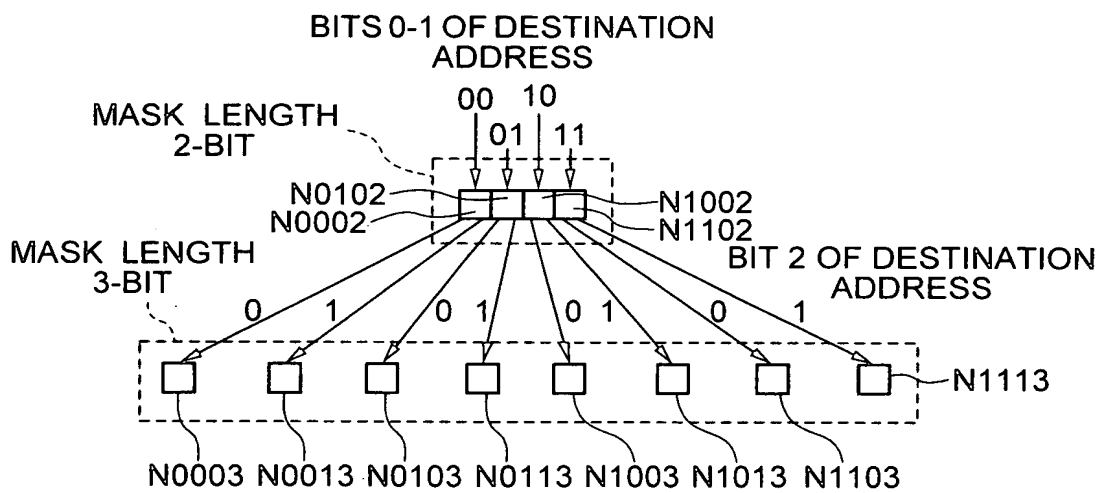


FIG. 10

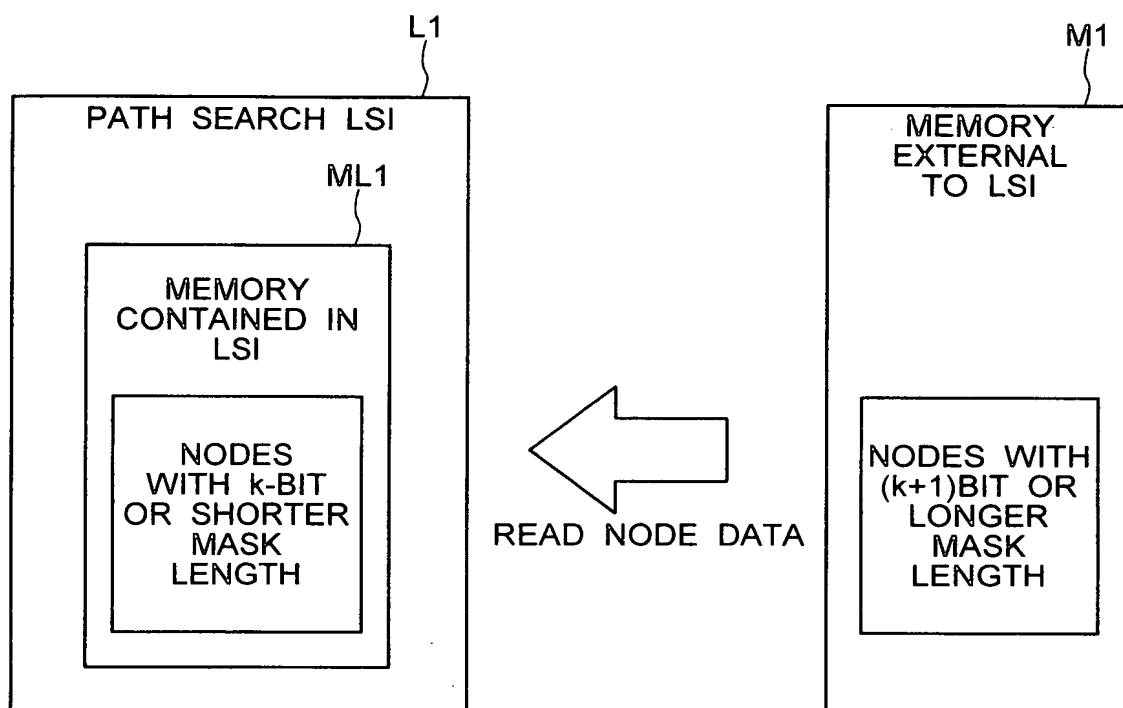


FIG. 11

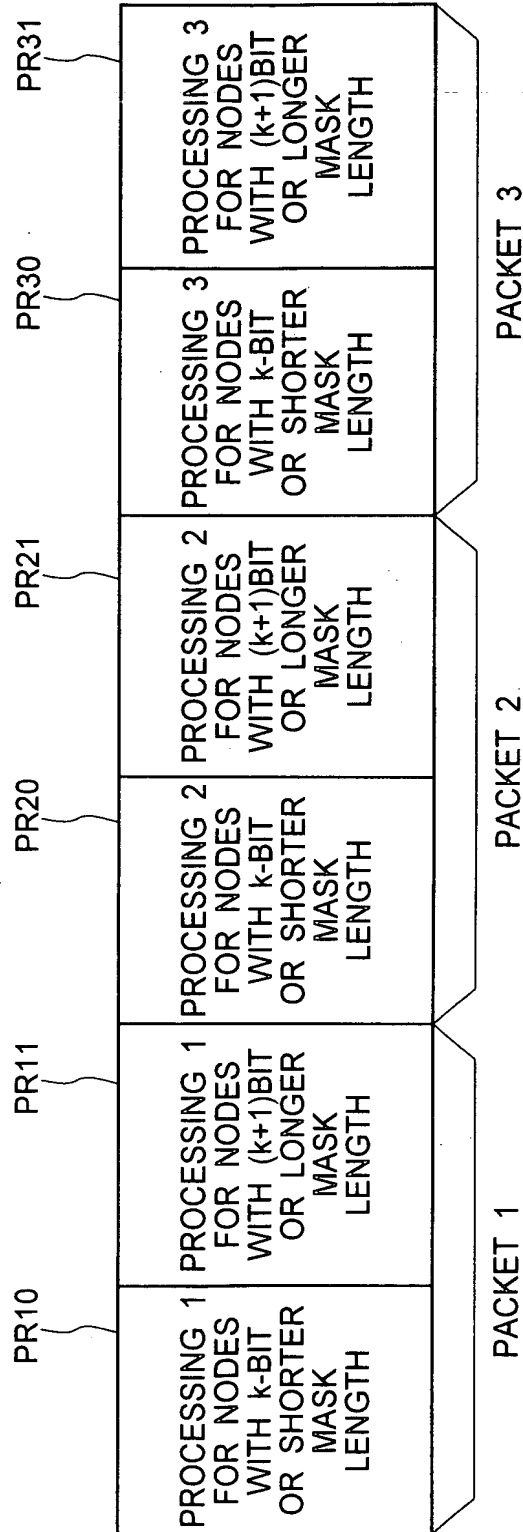
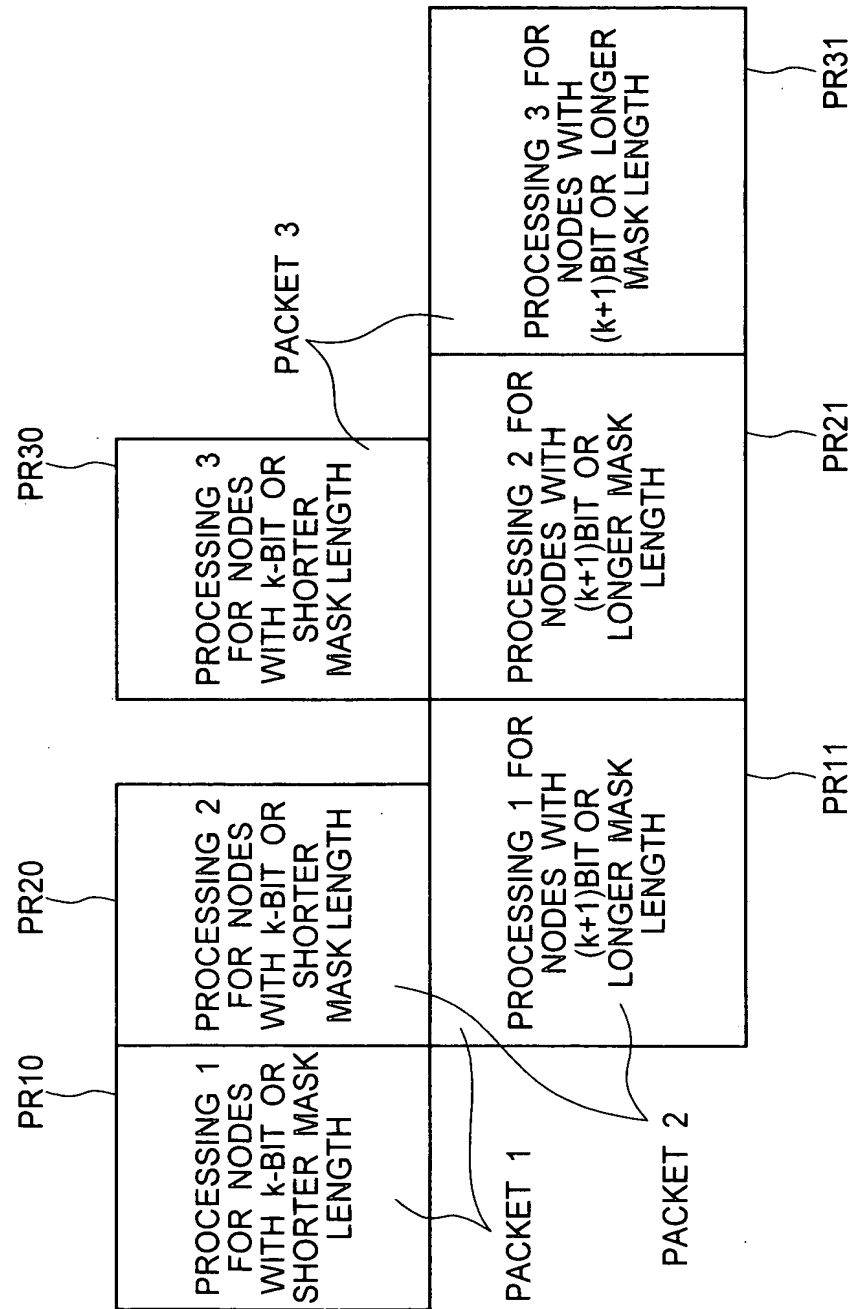


FIG. 12



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FIG. 13

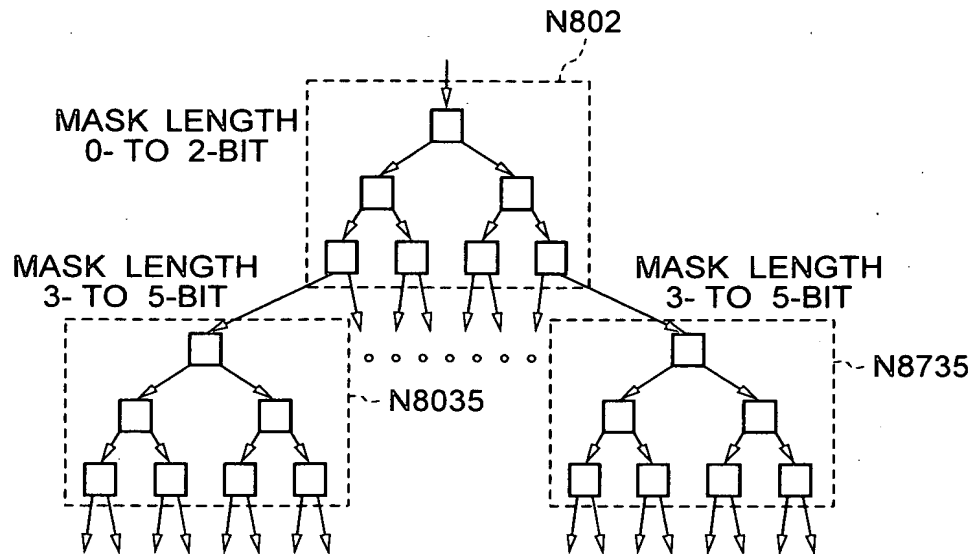


FIG. 14

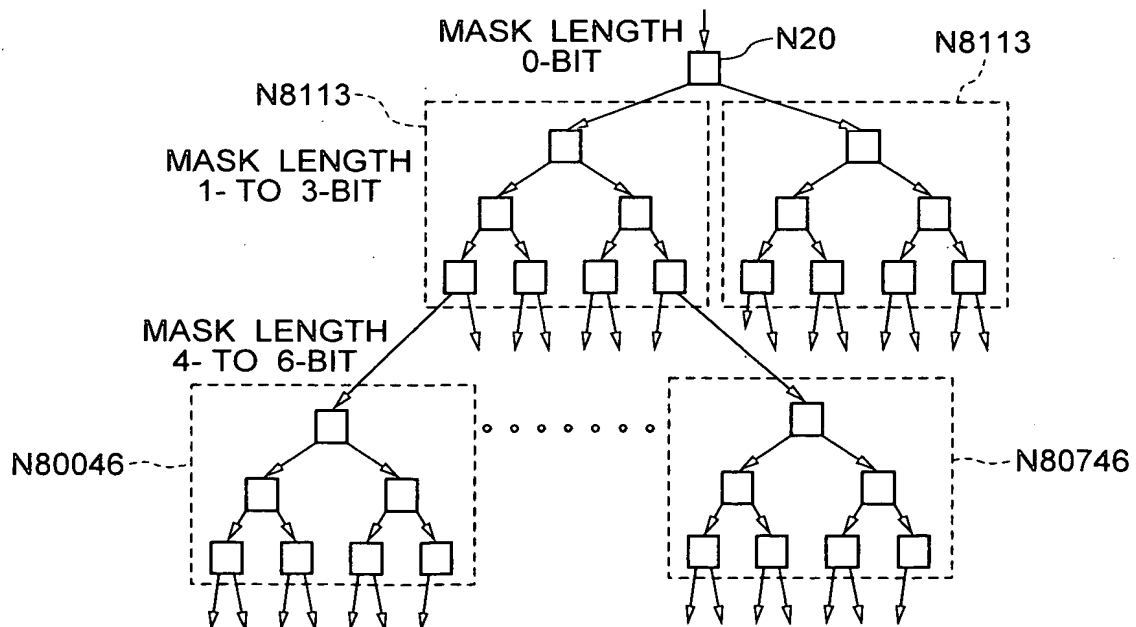


FIG. 15

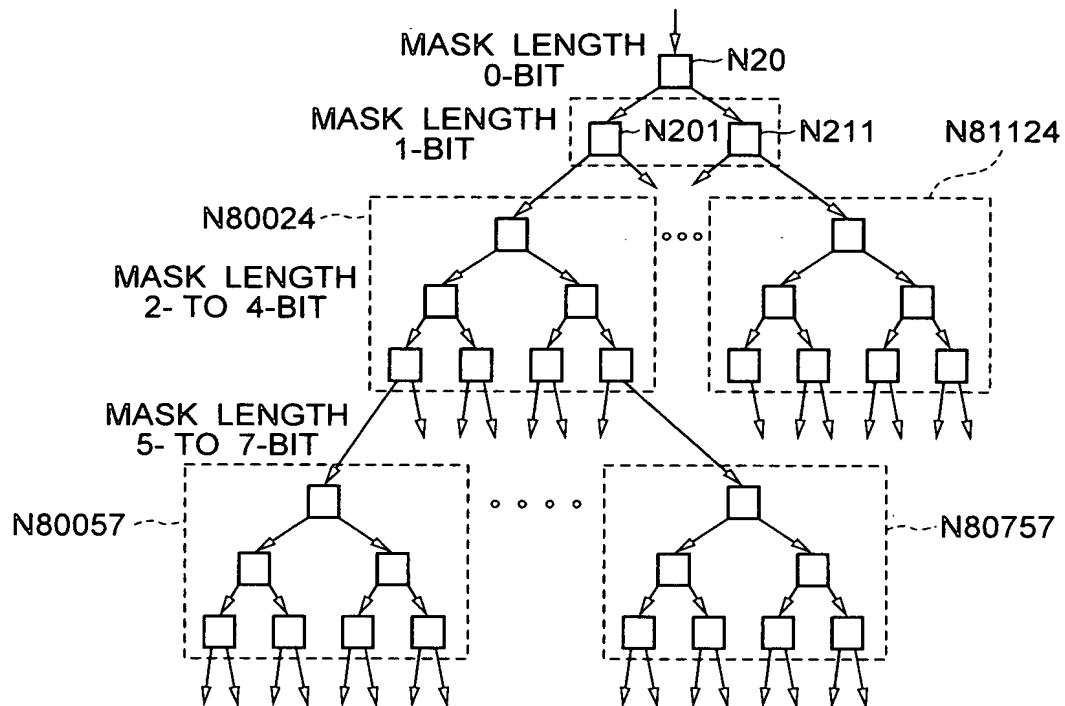


FIG. 16

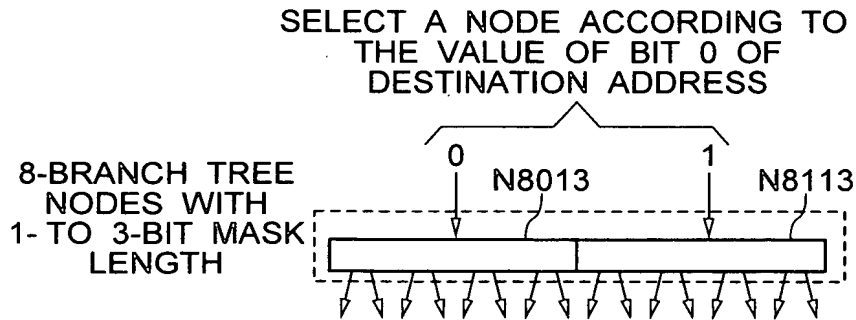
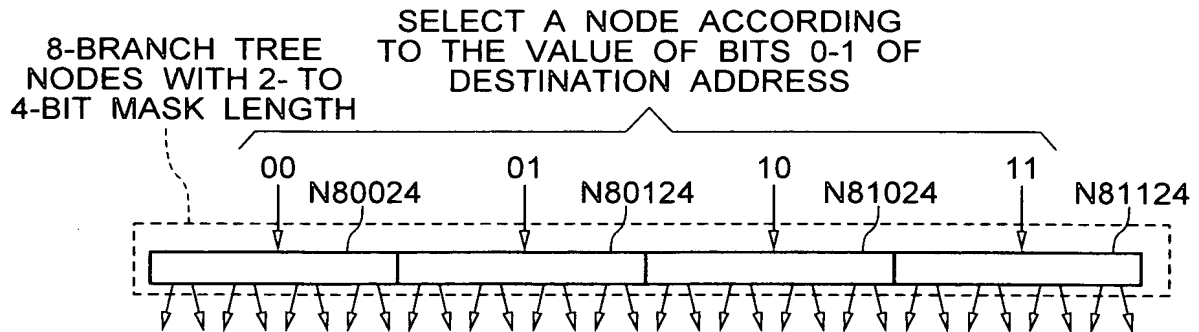


FIG. 17



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FIG. 18

SELECT A NODE ACCORDING
TO THE VALUE OF BITS 0-2 OF
DESTINATION ADDRESS

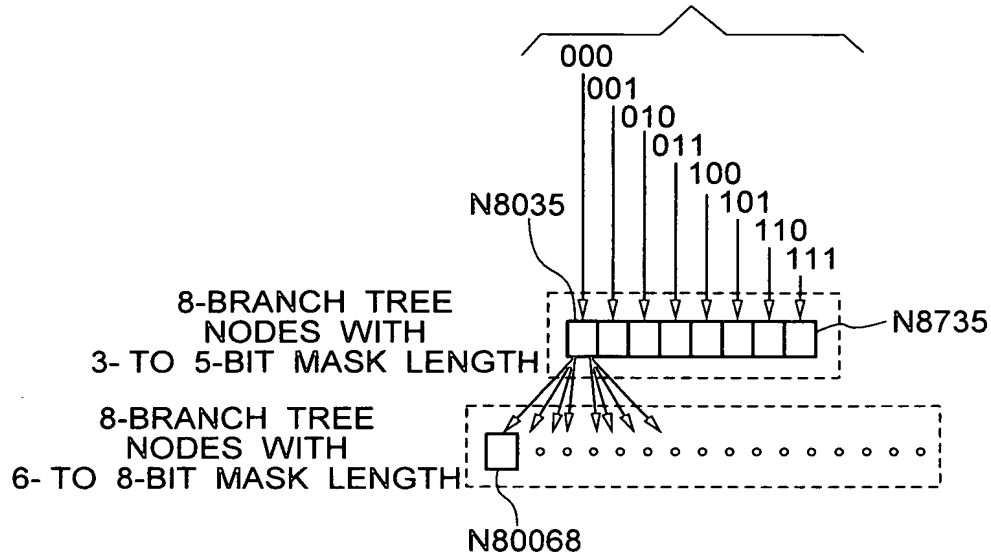


FIG. 19

SELECT A NODE ACCORDING
TO THE VALUE OF BITS 0-3 OF
DESTINATION ADDRESS

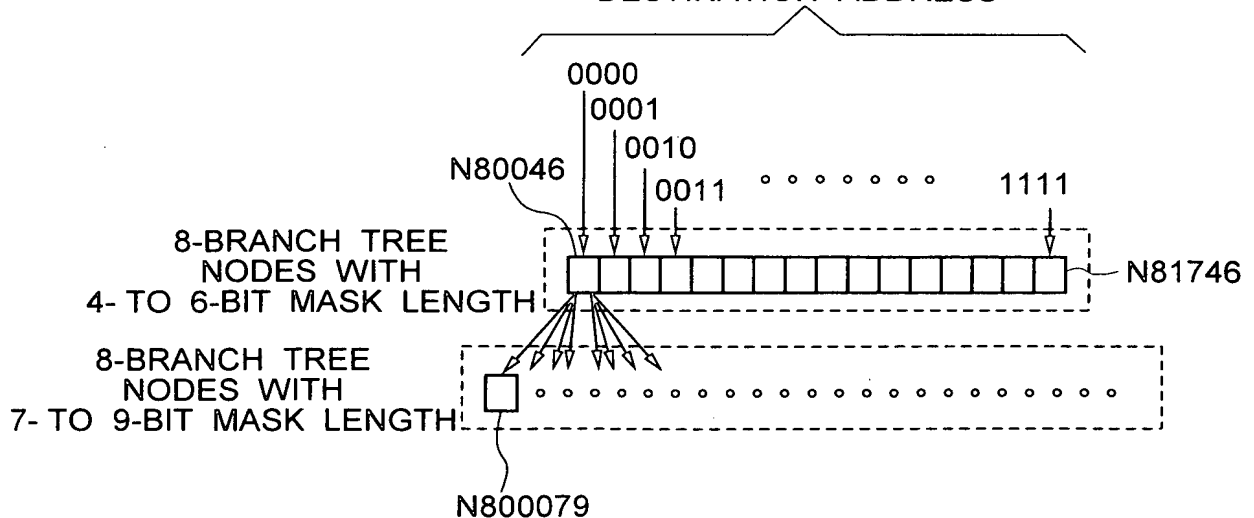
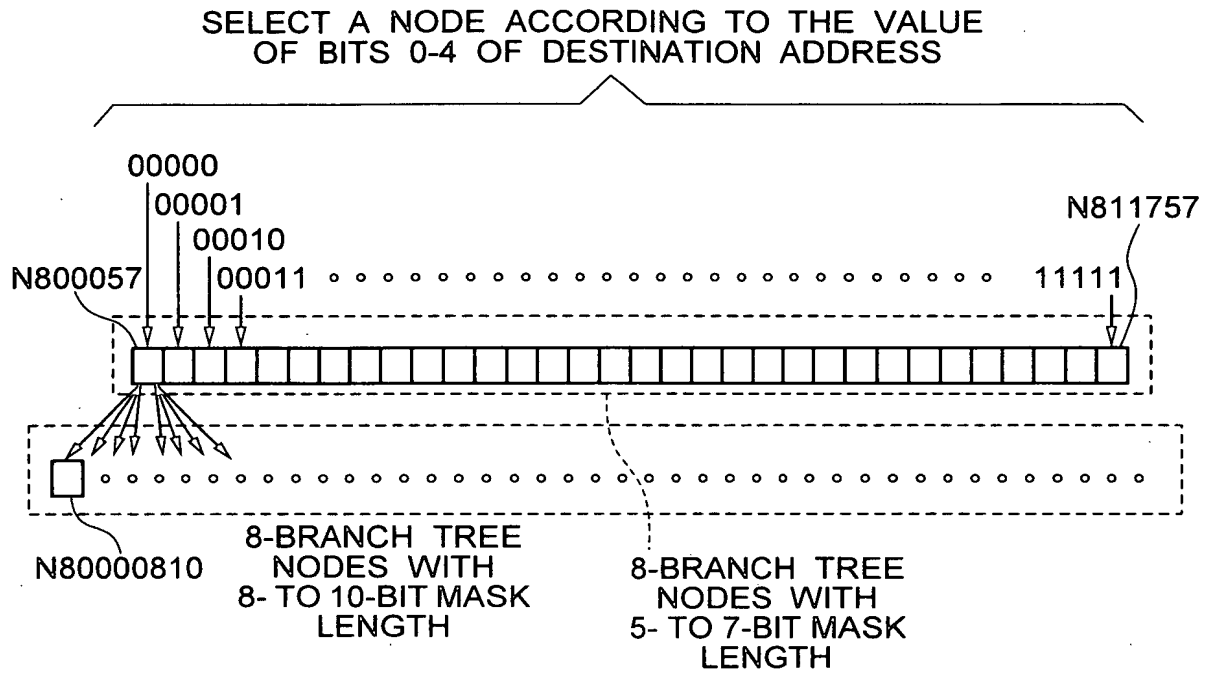
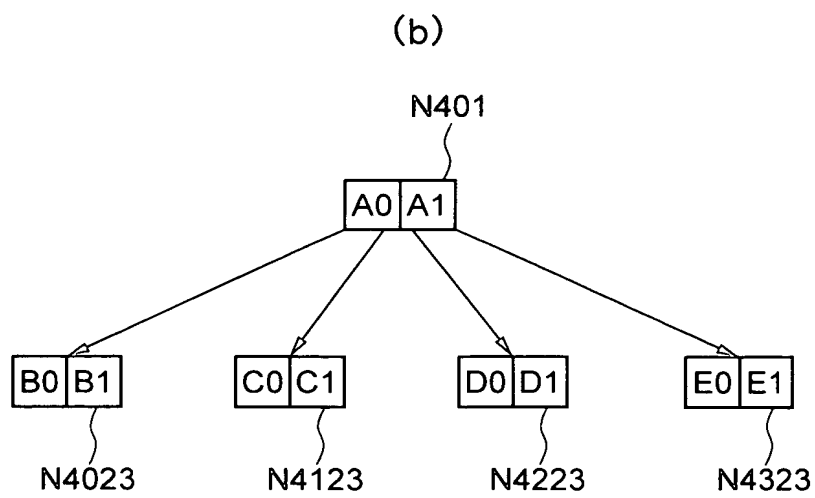
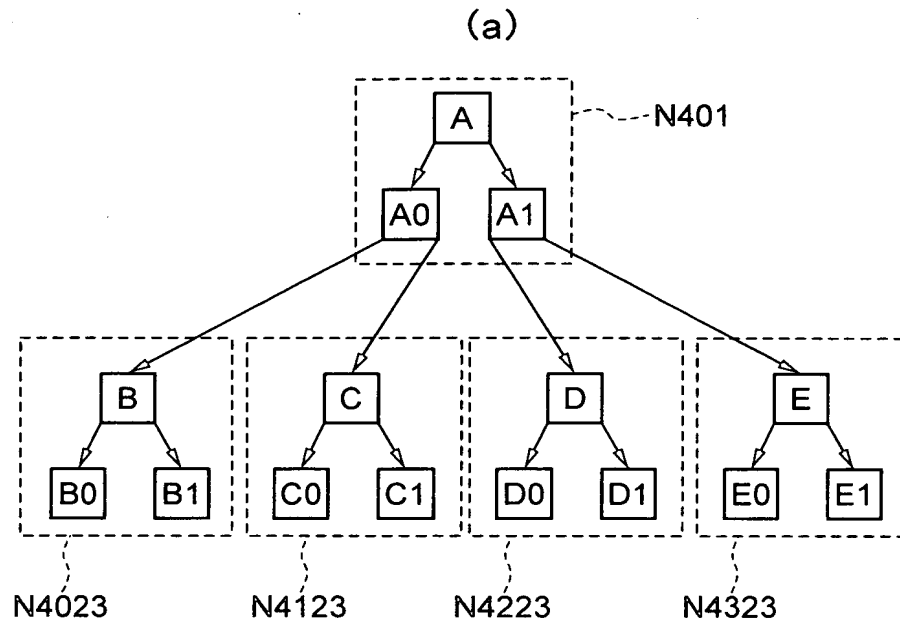


FIG. 20



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FIG. 21



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FIG. 22

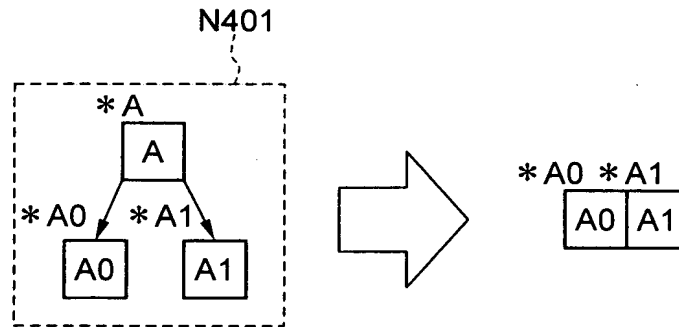


FIG. 23

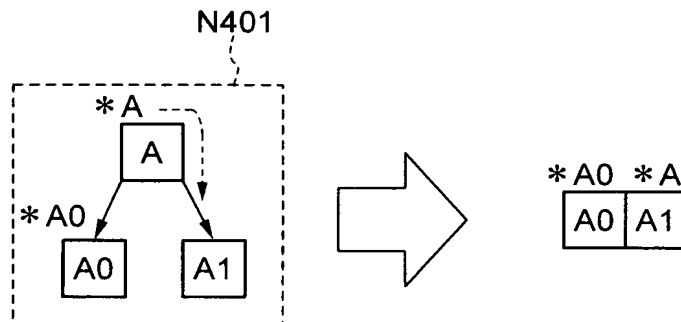
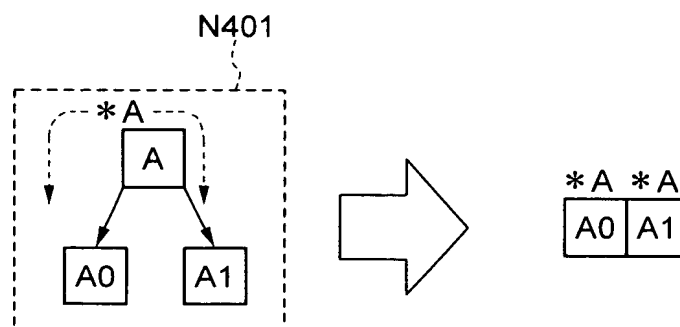


FIG. 24



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FIG. 25

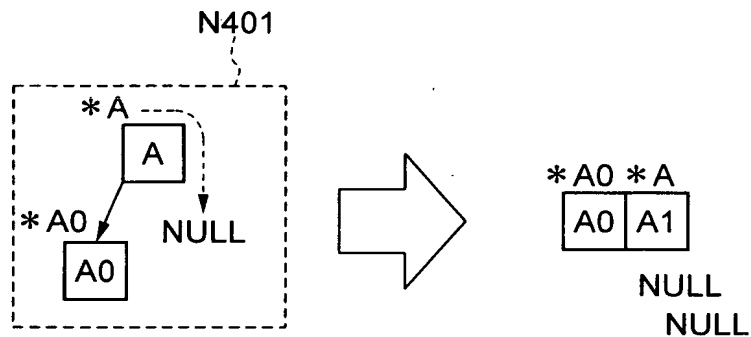


FIG. 26

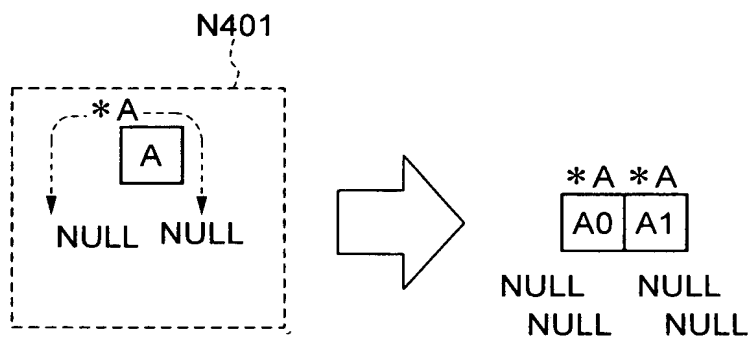


FIG. 27

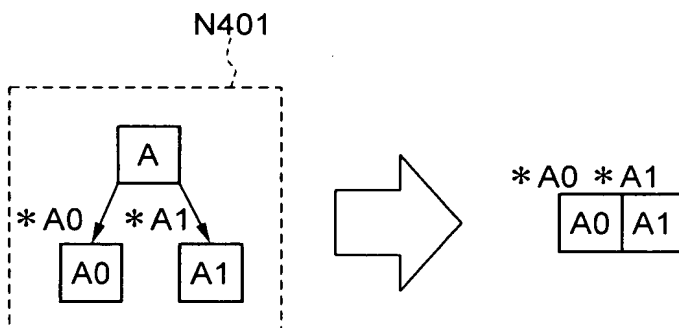


FIG. 28

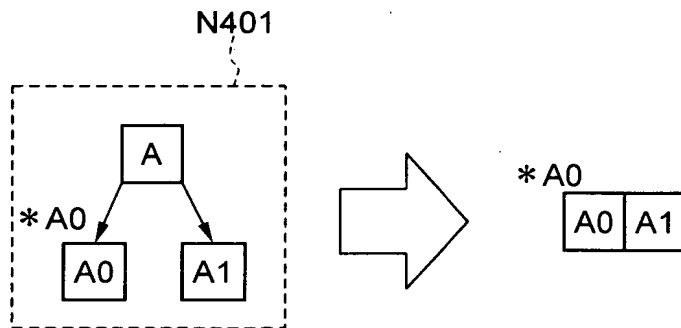


FIG. 29

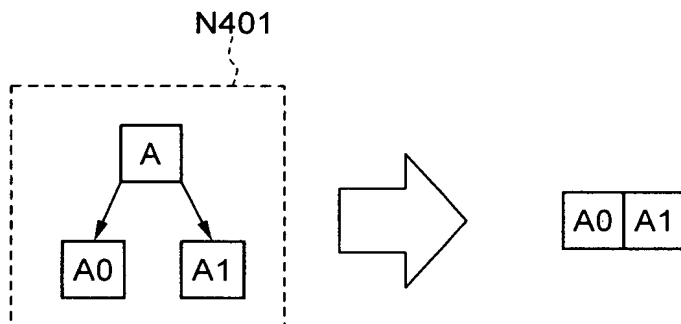


FIG. 30

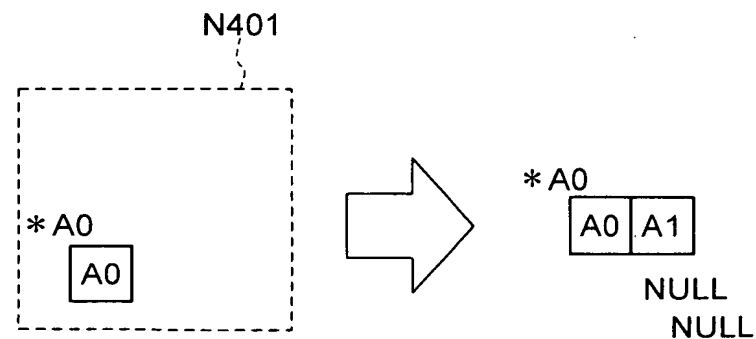
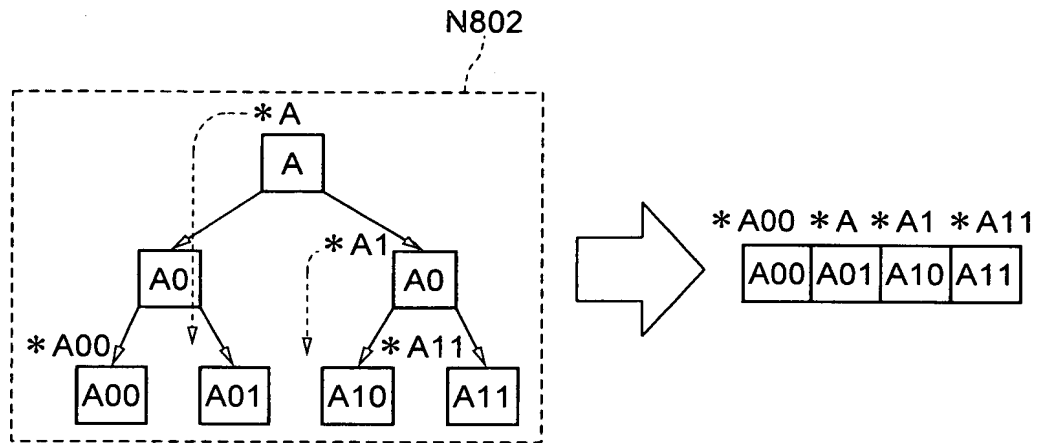


FIG. 31

(a)



(b)

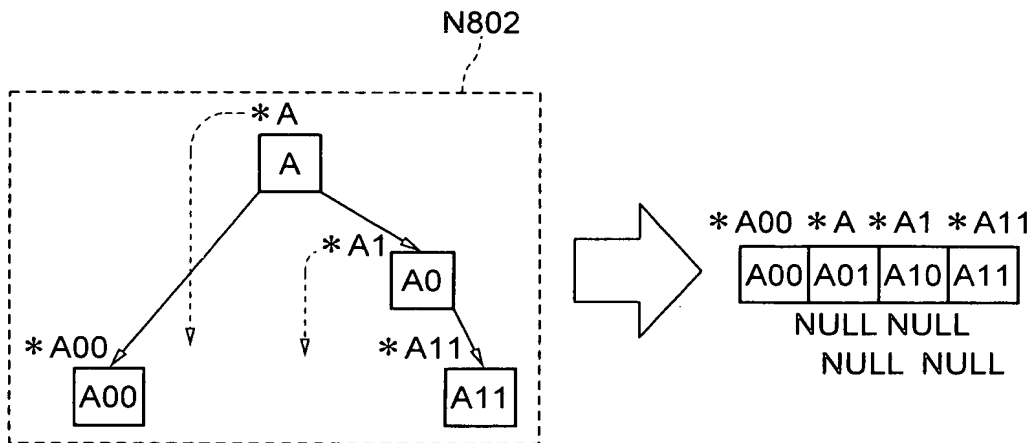
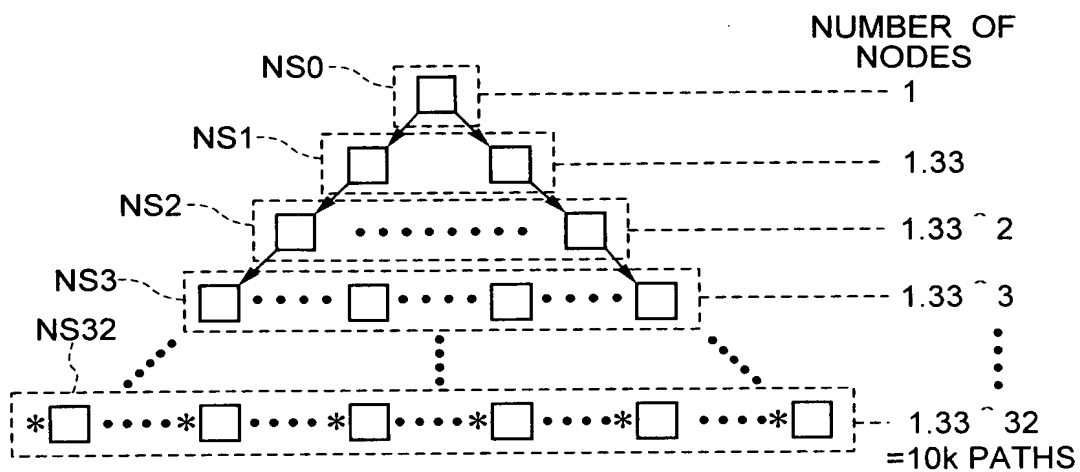


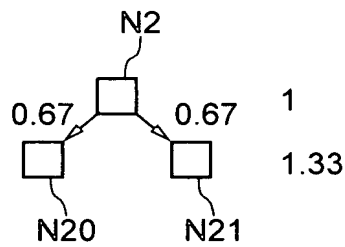
FIG. 32



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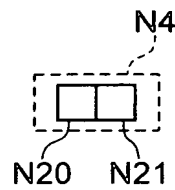
FIG. 33

(a)



AVERAGE: $1 + 1.33 = 2.33$
 MEMORY AMOUNT FOR 2 2-BRANCH TREE NODES

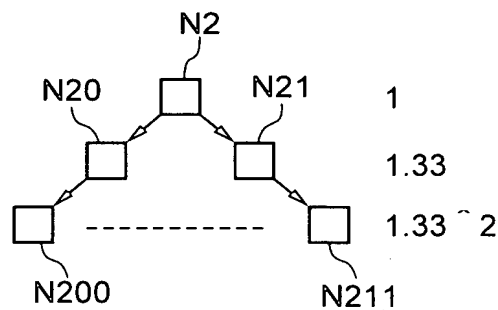
2-BRANCH TREE NODE



MEMORY AMOUNT FOR
 2 2-BRANCH TREE NODES

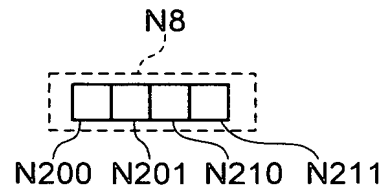
4-BRANCH TREE NODE

(b)



AVERAGE: $1 + 1.33 + 1.33^2 = 4.11$
 MEMORY AMOUNT FOR 4 2-BRANCH TREE NODES

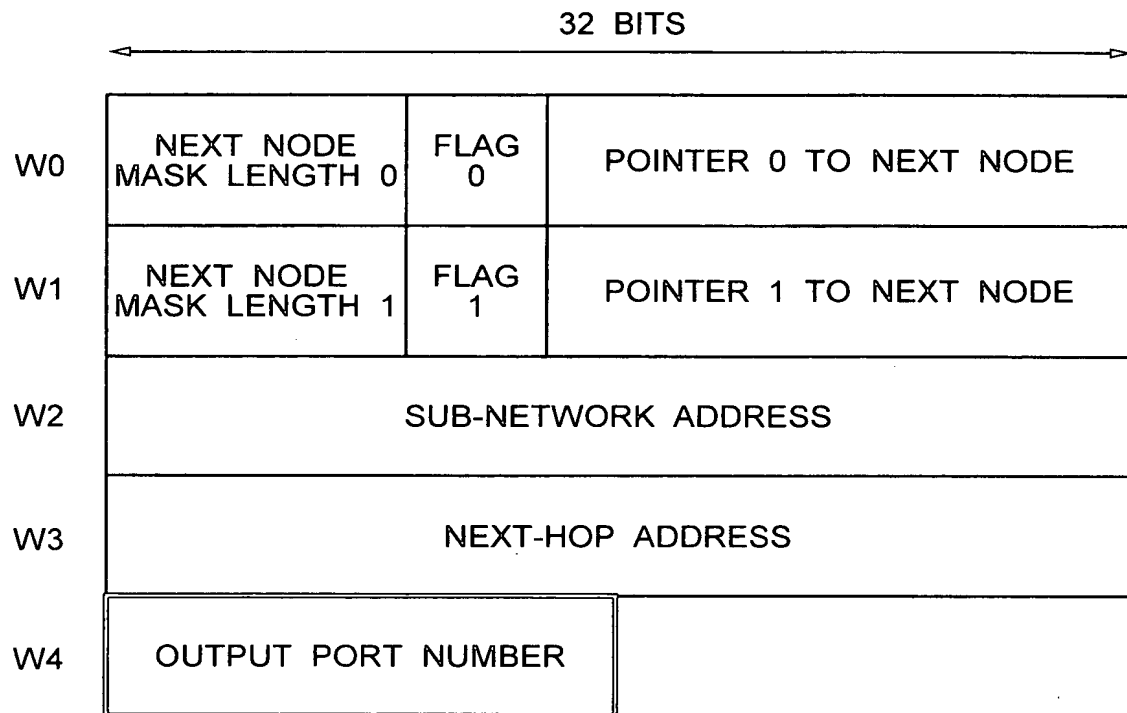
2-BRANCH TREE NODE



MEMORY AMOUNT FOR
 4 2-BRANCH TREE NODES

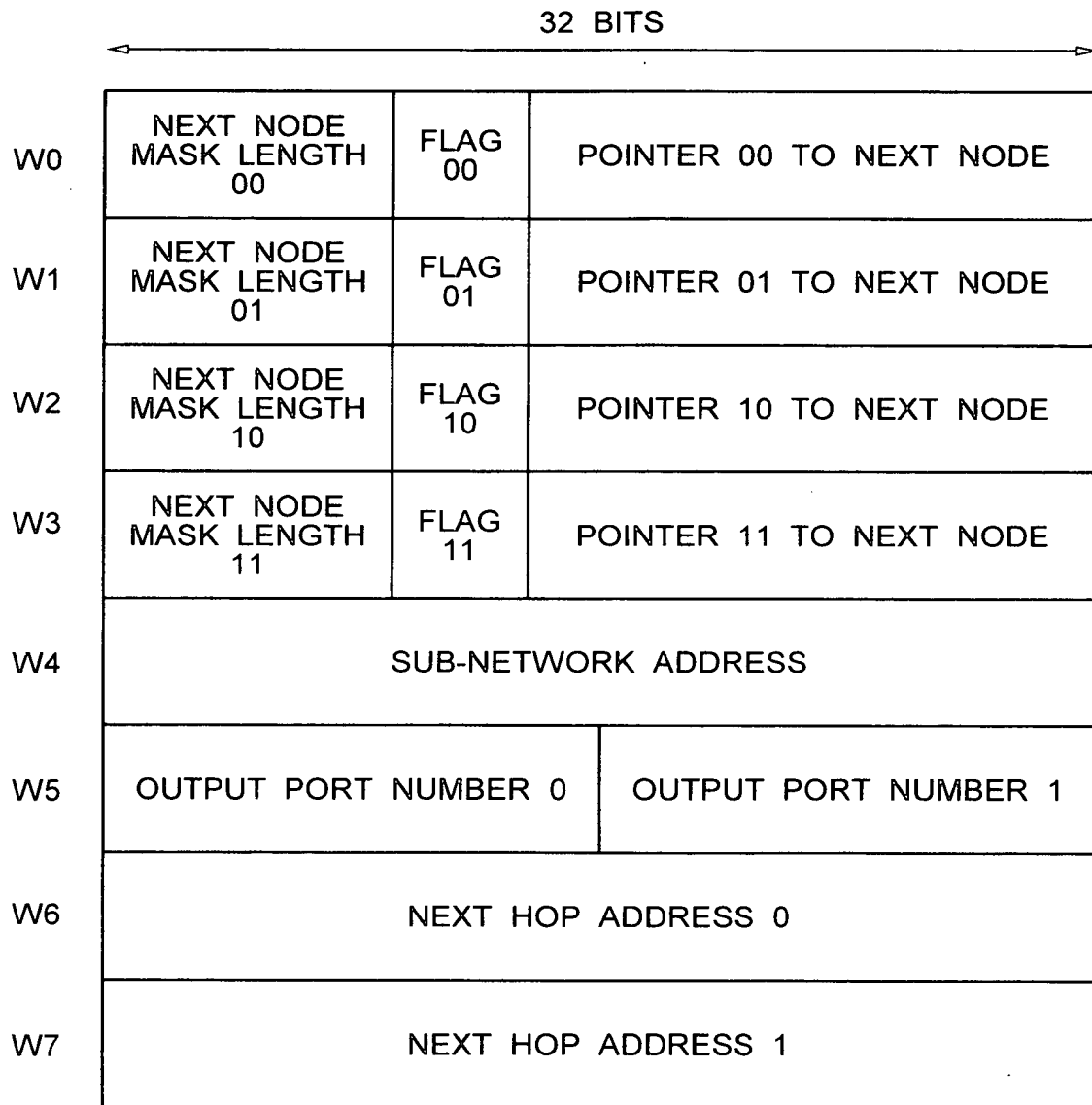
8-BRANCH TREE NODE

FIG. 34



2-BRANCH TREE NODE

FIG. 35



4-BRANCH TREE NODE

FIG. 36

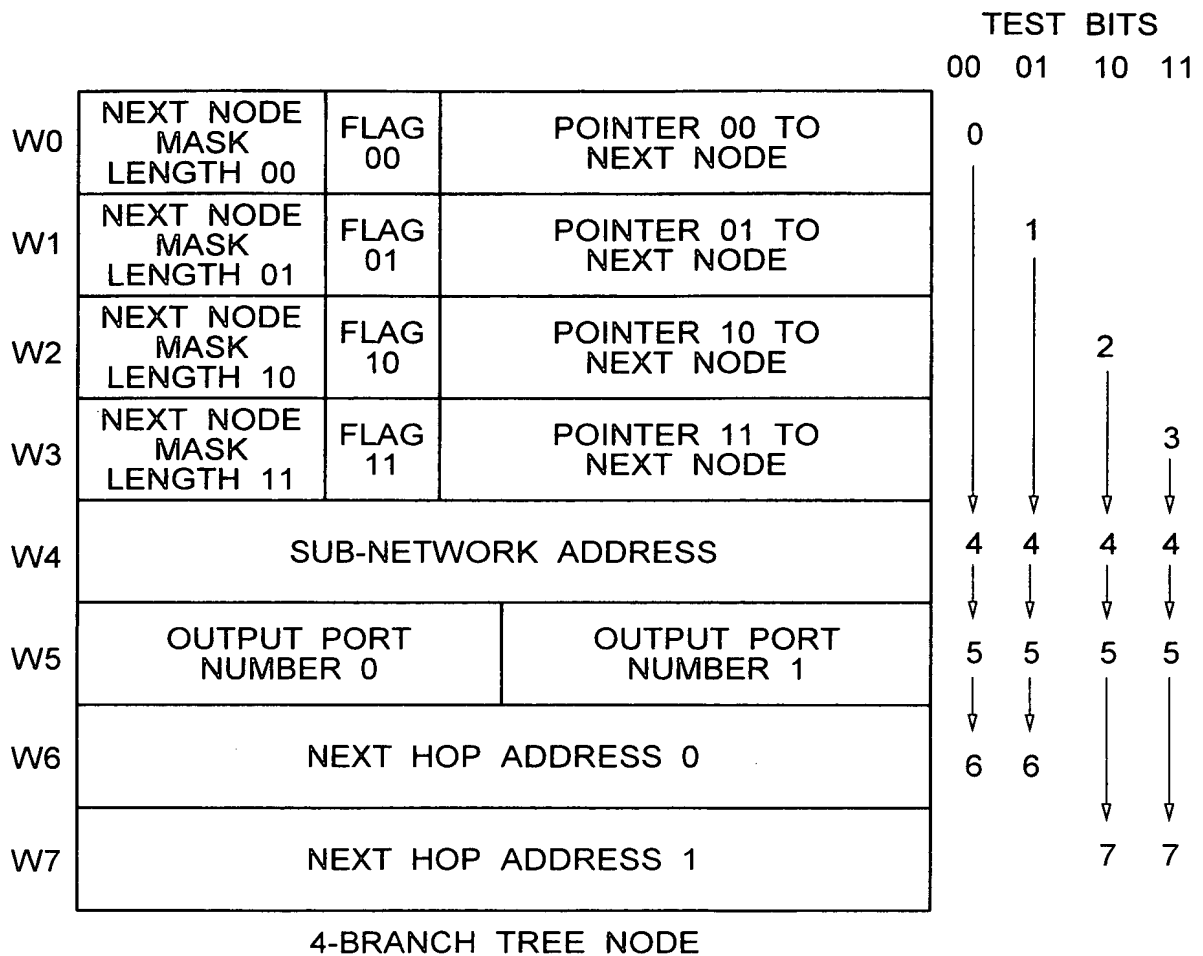


FIG. 37

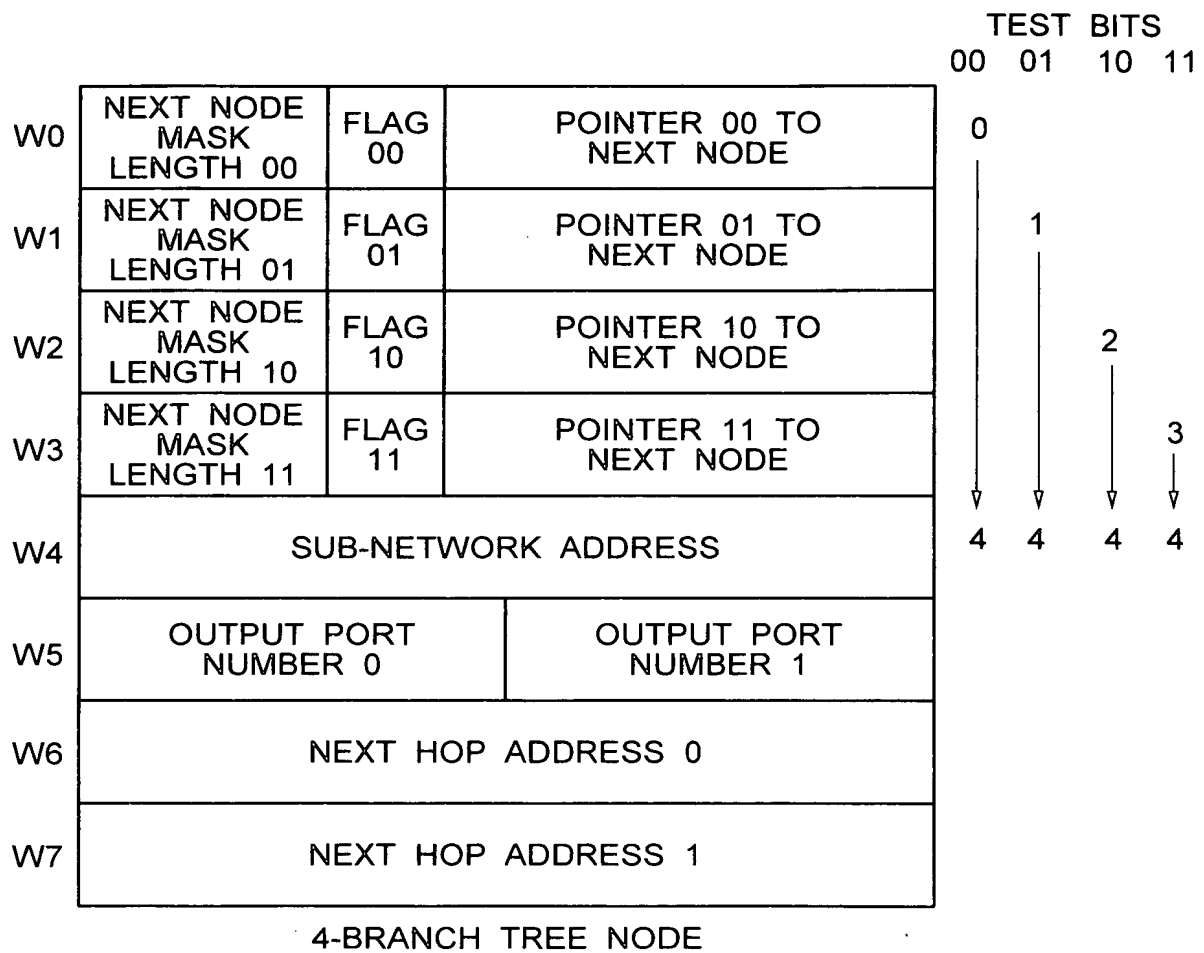


FIG. 38

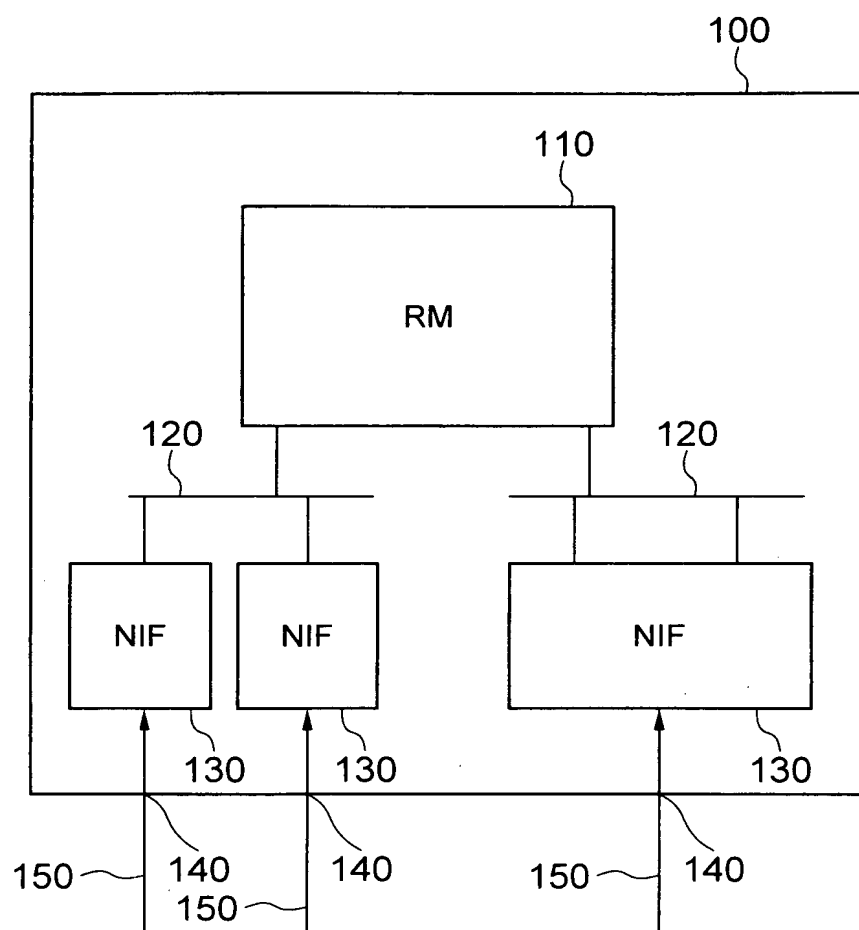


FIG. 39

